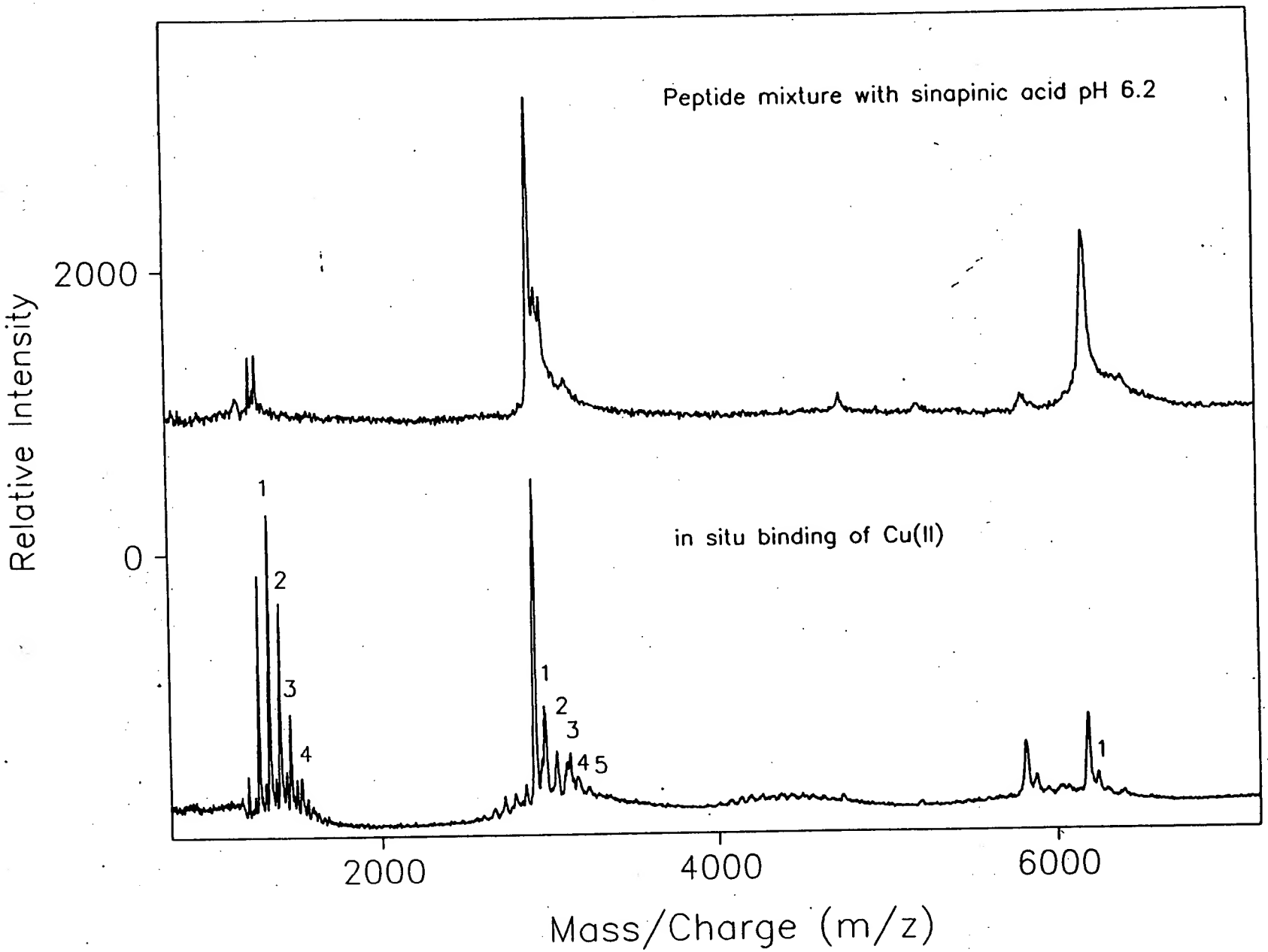

Peptide mixture with sinapinic acid pH 6.2
in situ binding of Cu(II)
Relative Intensity
2000
0
1
2
3
4
1
2
3
4
5
1
2000
4000
6000
Mass/Charge (m/z)

FIGURE 1

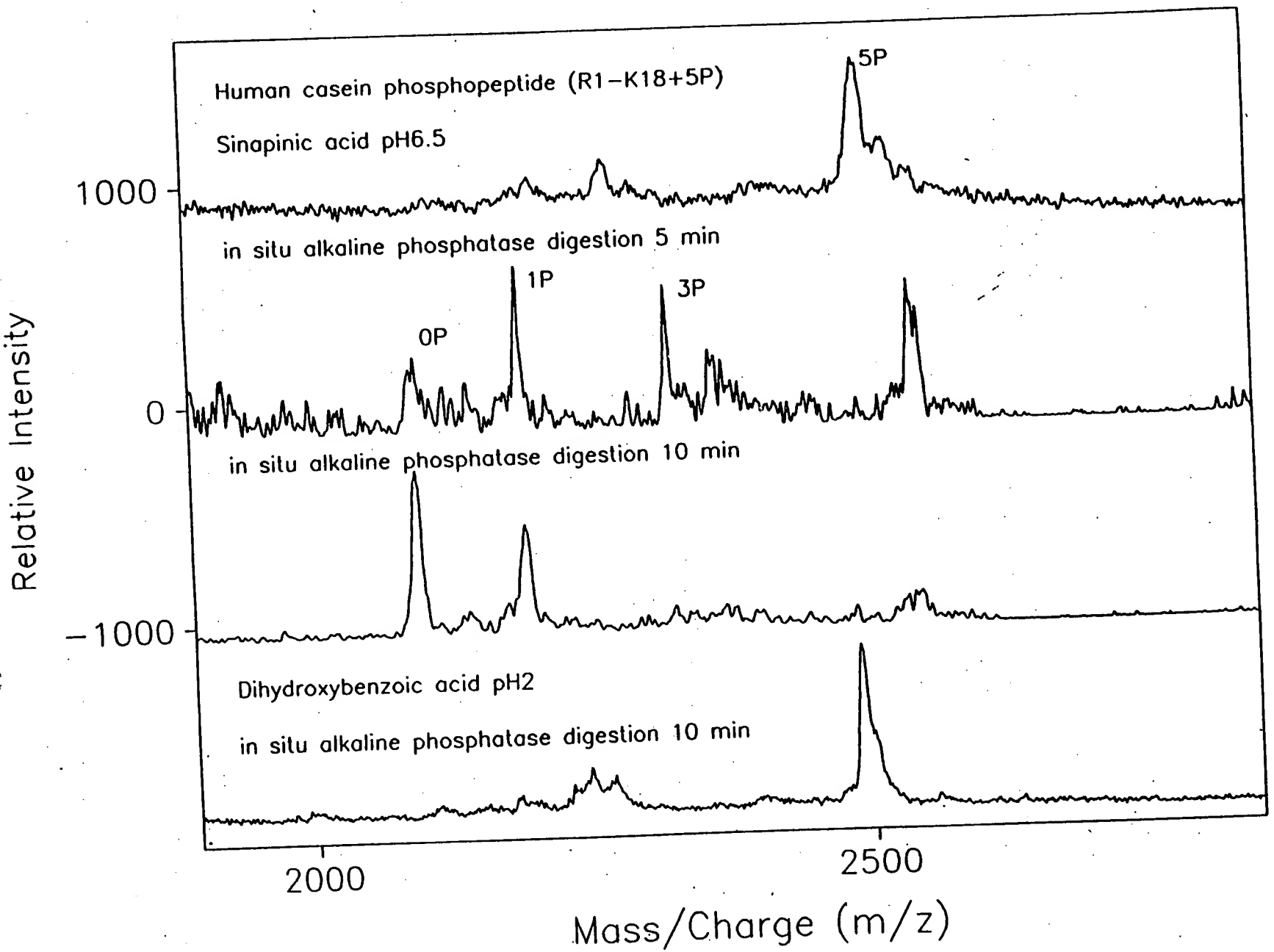

Human casein phosphopeptide (R1–K18+5P)
Sinapinic acid pH6.5
5P
1000
in situ alkaline phosphatase digestion 5 min
1P
3P
0P
0
in situ alkaline phosphatase digestion 10 min
−1000
Dihydroxybenzoic acid pH2
in situ alkaline phosphatase digestion 10 min
Relative Intensity
2000
2500
Mass/Charge (m/z)

FIGURE 2

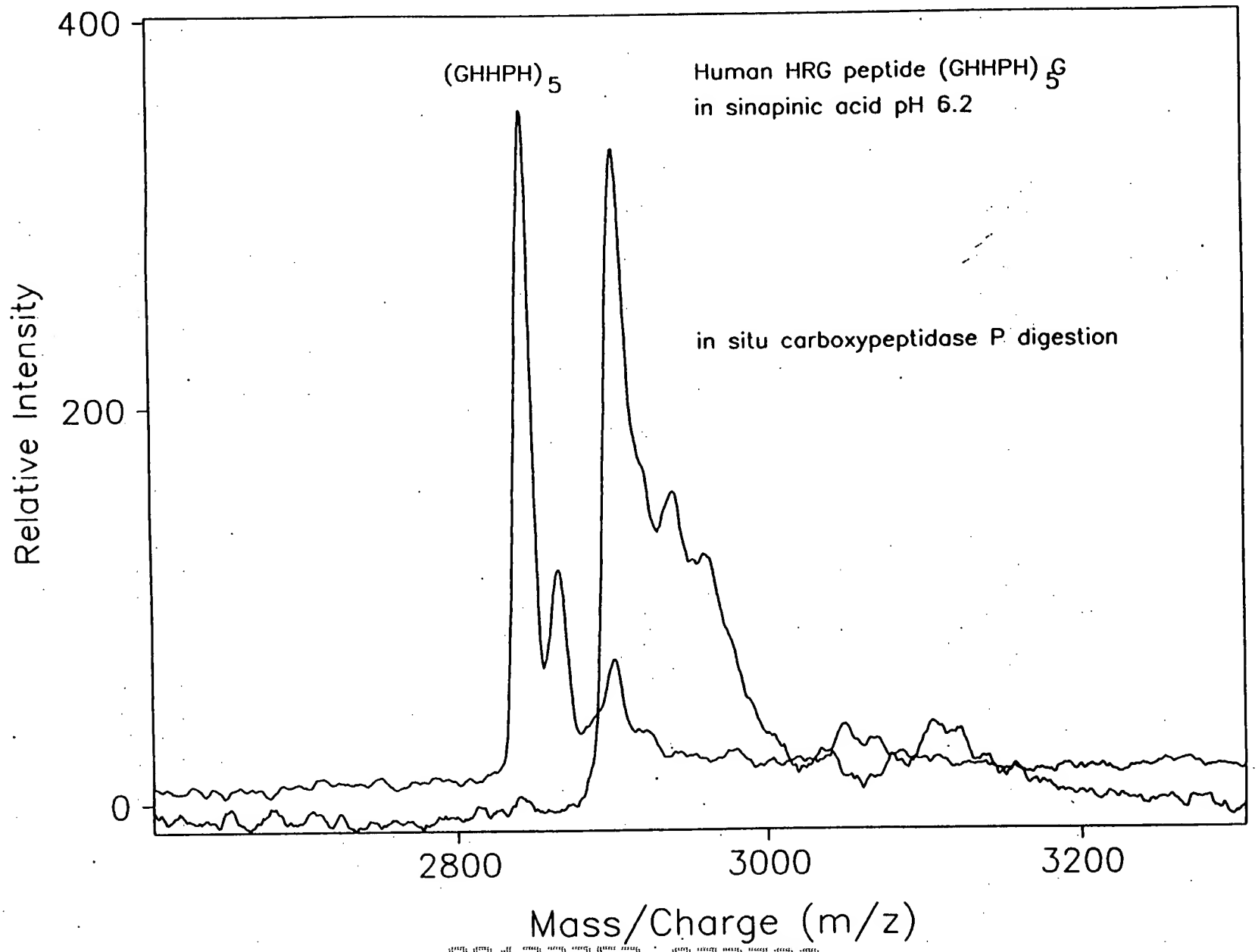

400
200
0
Relative Intensity
(GHHPH) 5
Human HRG peptide (GHHPH) 5G
in sinapinic acid pH 6.2
in situ carboxypeptidase P digestion
2800
3000
3200
Mass/Charge (m/z)

FIGURE 3

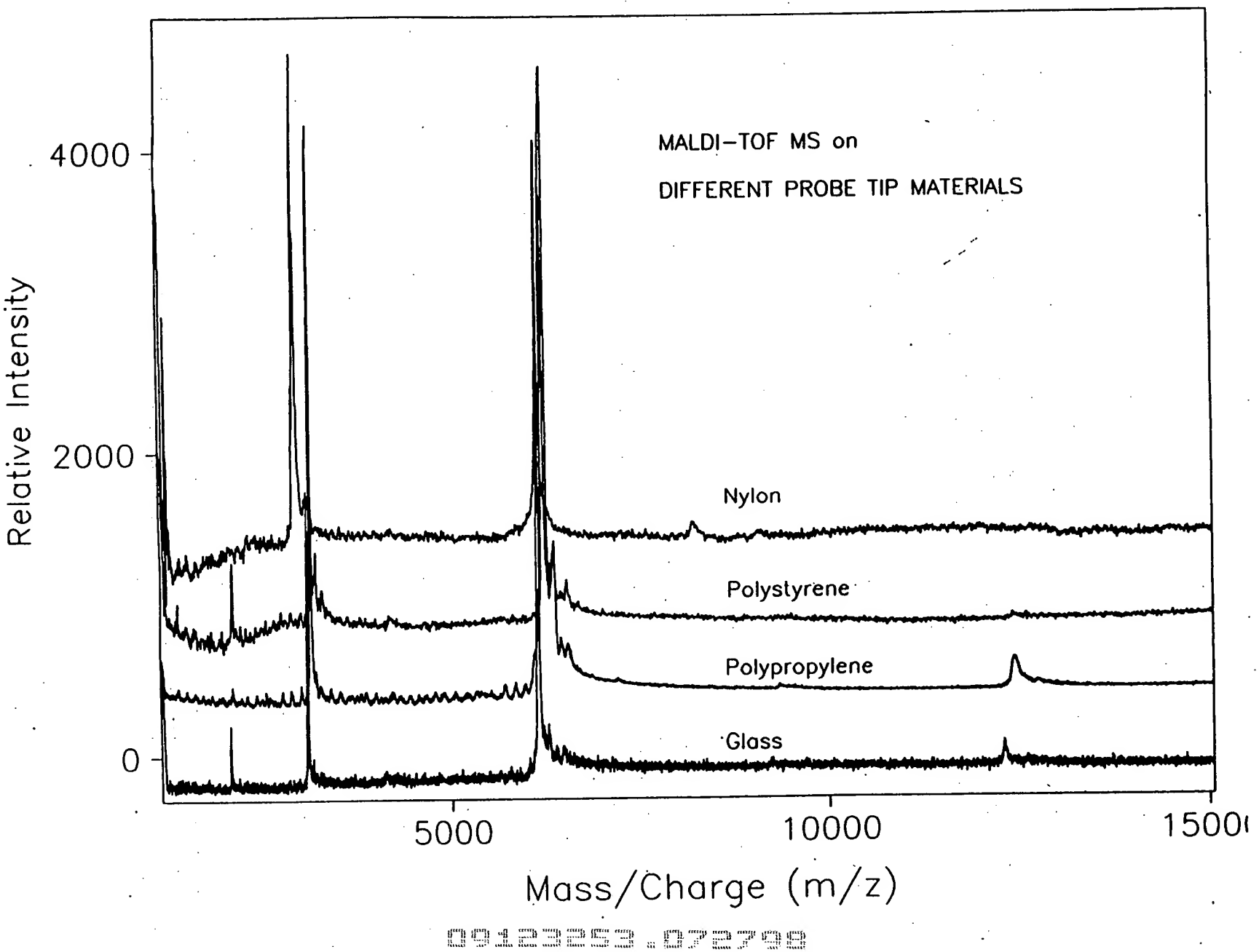

MALDI–TOF MS on
DIFFERENT PROBE TIP MATERIALS
Nylon
Polystyrene
Polypropylene
Glass
Relative Intensity
4000
2000
0
5000
10000
Mass/Charge (m/z)

FIGURE 4

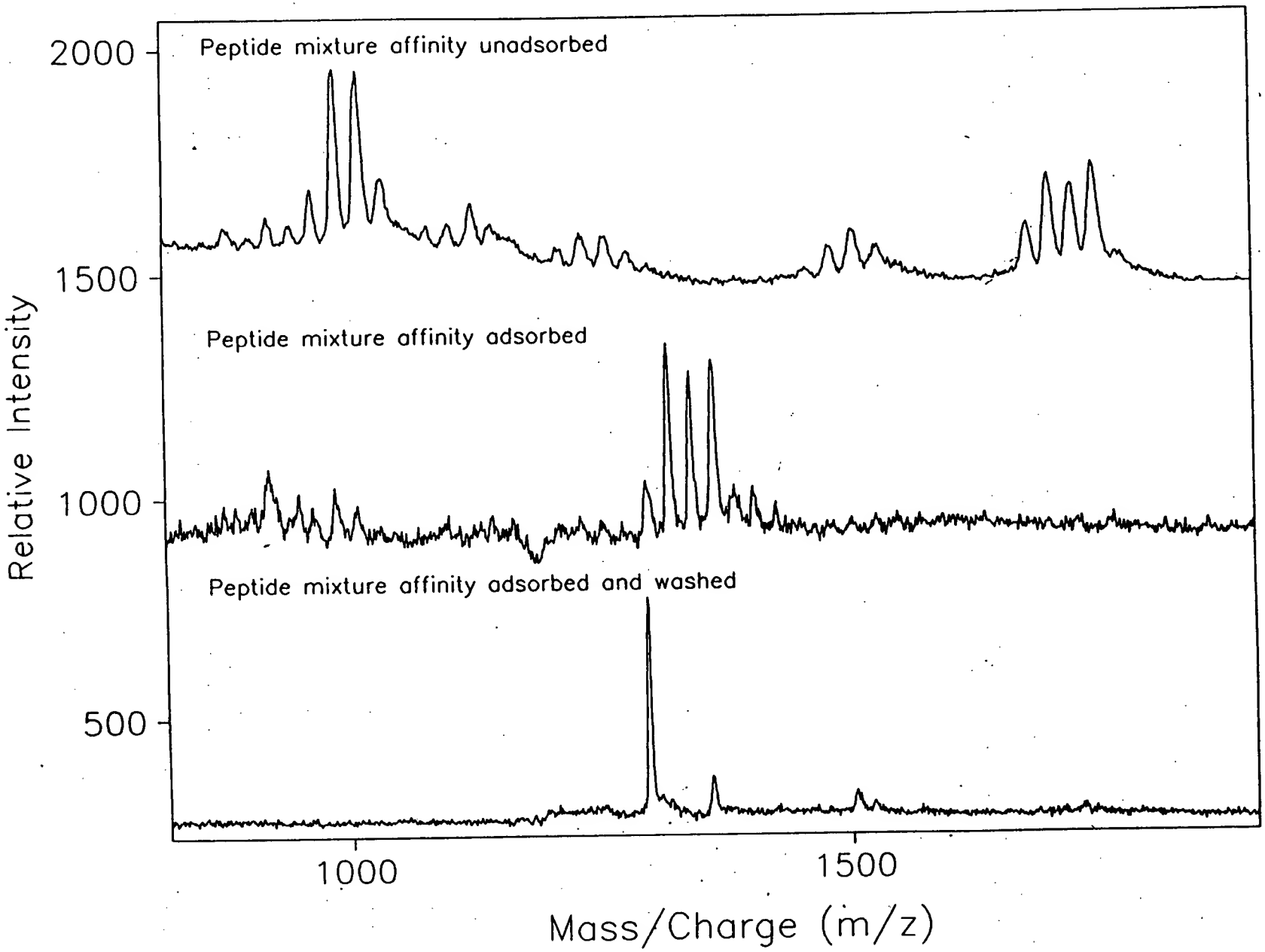
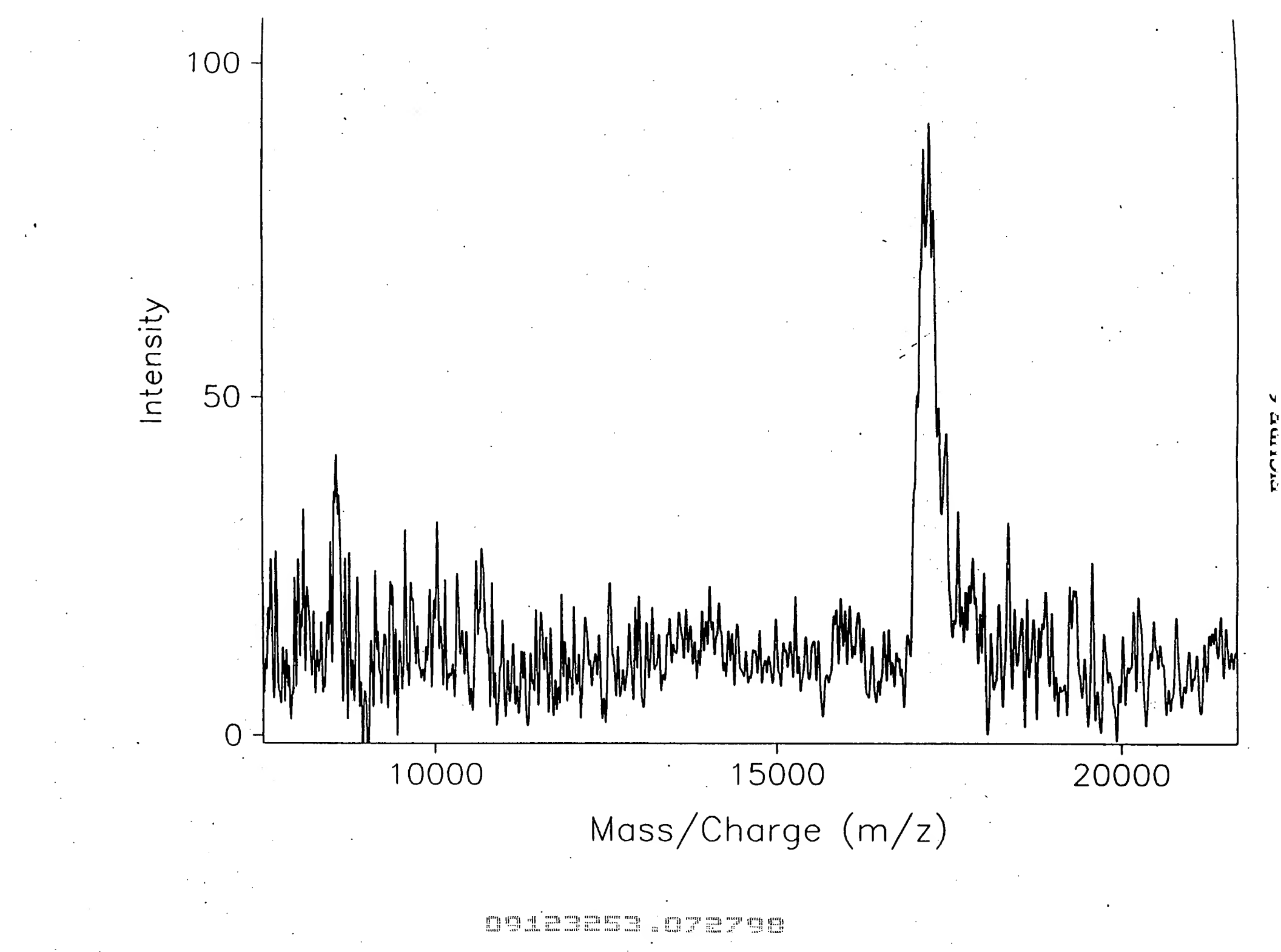
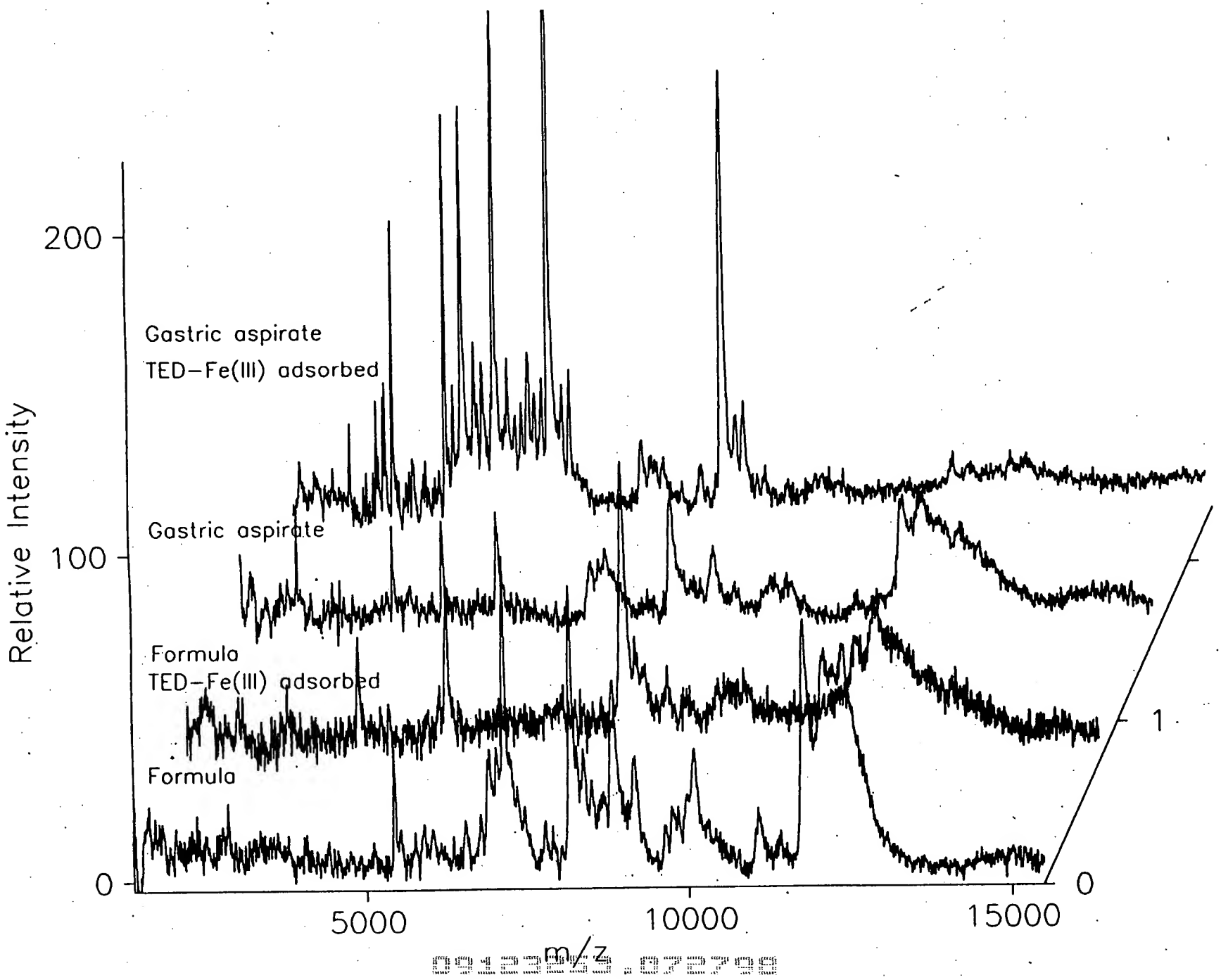
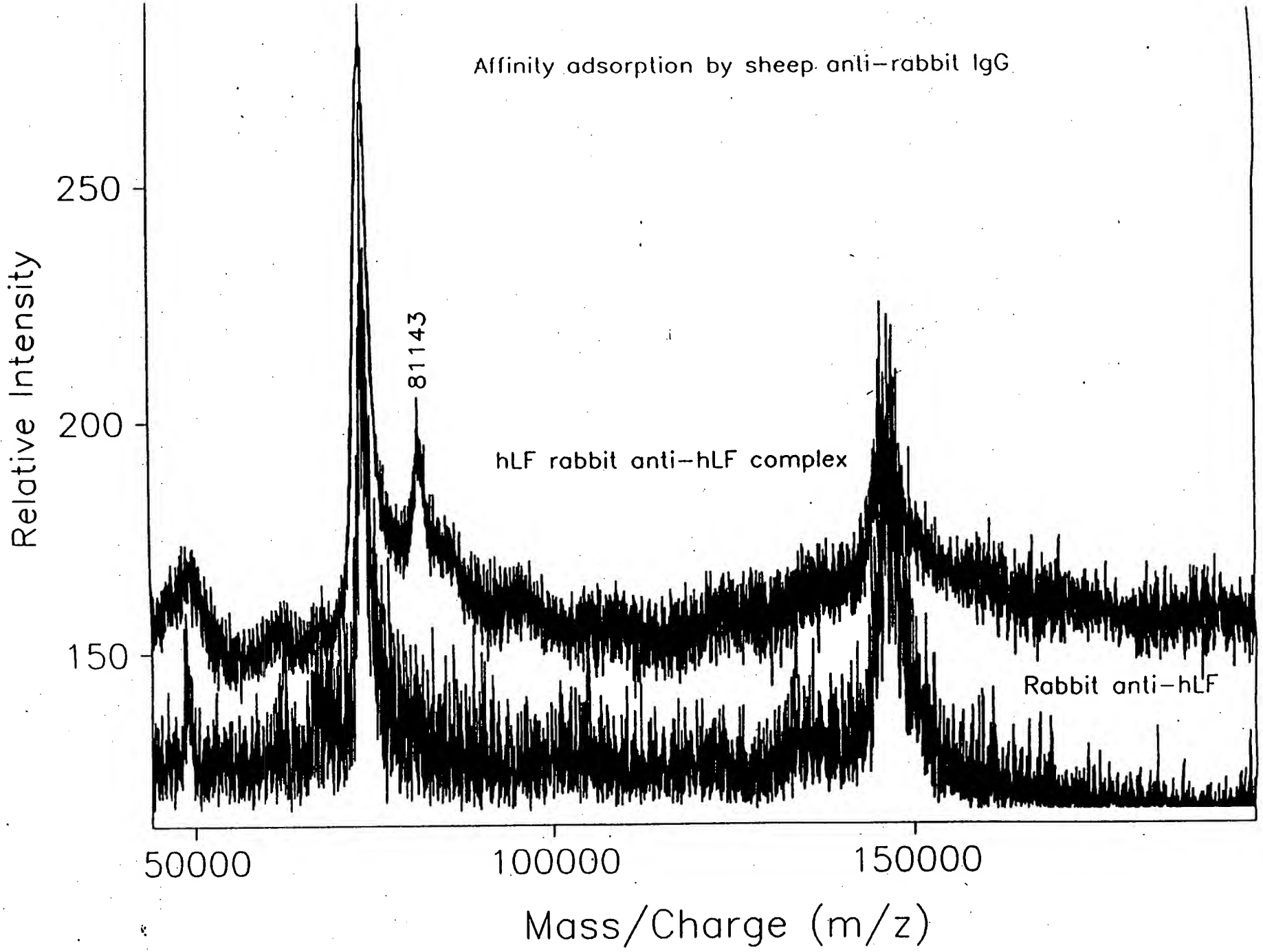

Peptide mixture affinity unadsorbed
Peptide mixture affinity adsorbed
Peptide mixture affinity adsorbed and washed
2000
1500
1000
500
Relative Intensity
1000
1500
Mass/Charge (m/z)

FIGURE 5




200
100
0
Relative Intensity
Gastric aspirate
TED–Fe(III) adsorbed
Gastric aspirate
Formula
TED–Fe(III) adsorbed
Formula
5000
10000
15000
m/z
1
0



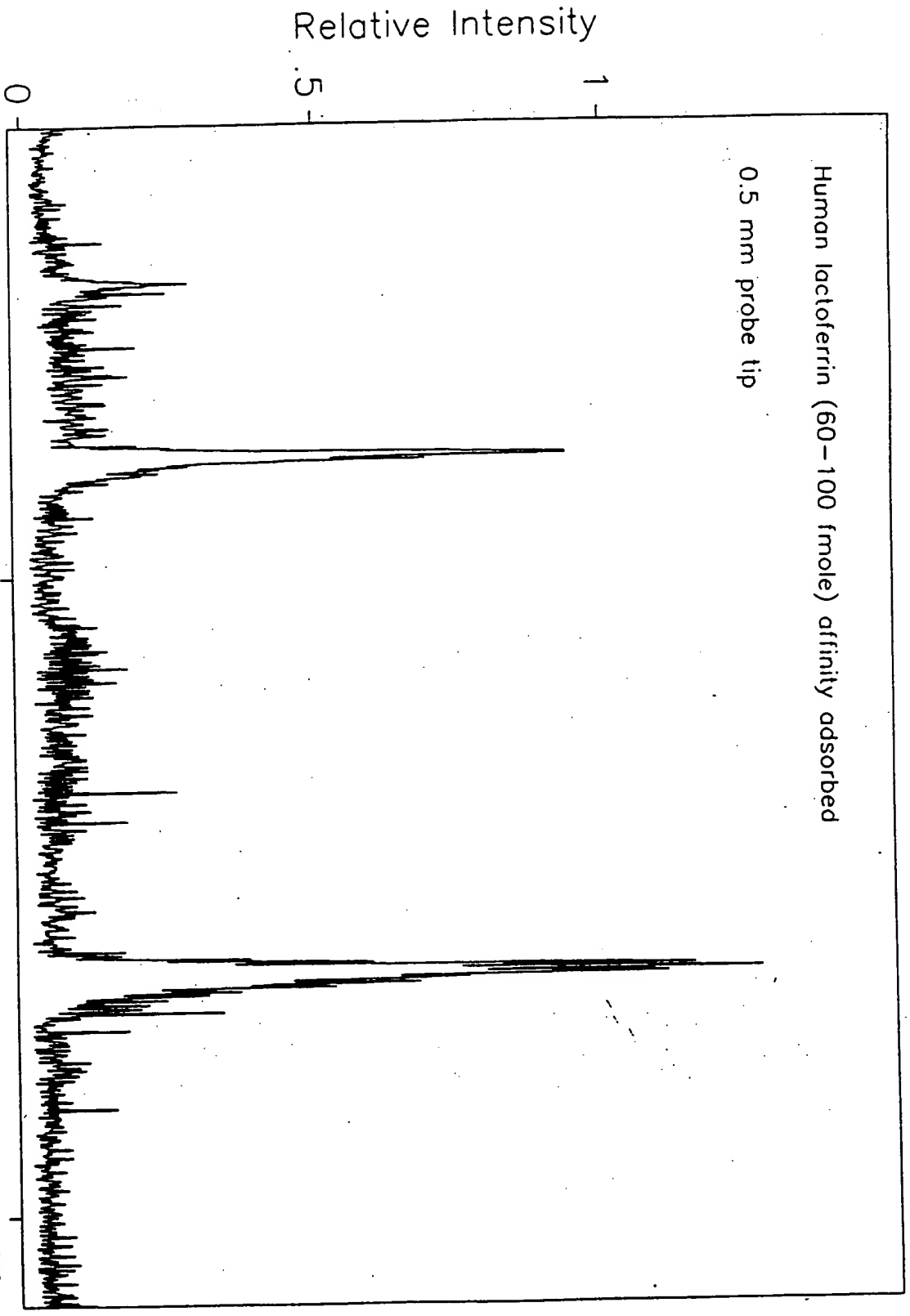

Relative Intensity
0
.5
1
Human lactoferrin (60–100 fmole) affinity adsorbed
0.5 mm probe tip
50000
100000
Mass/Charge (m/z)

FIGURE 9

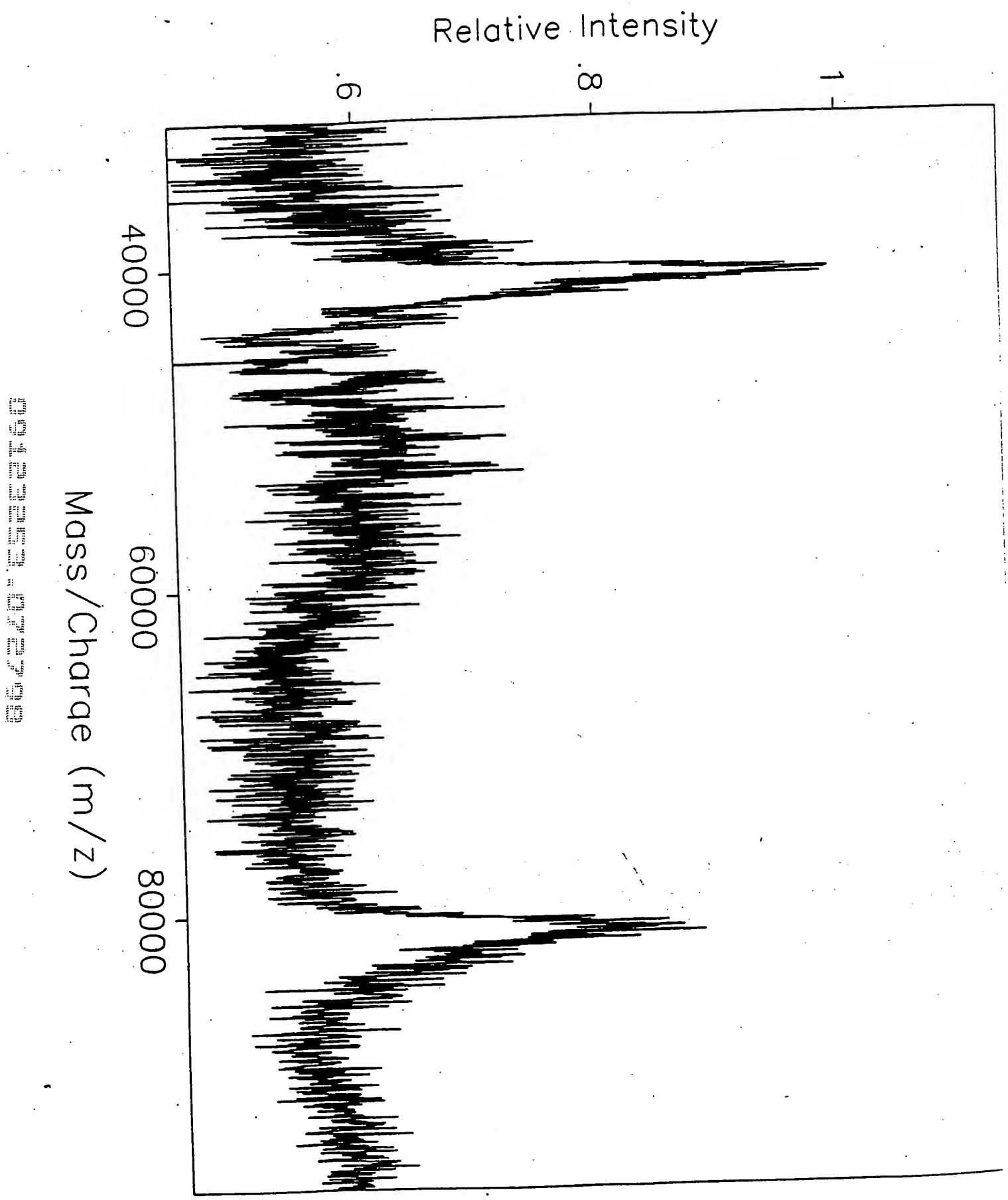
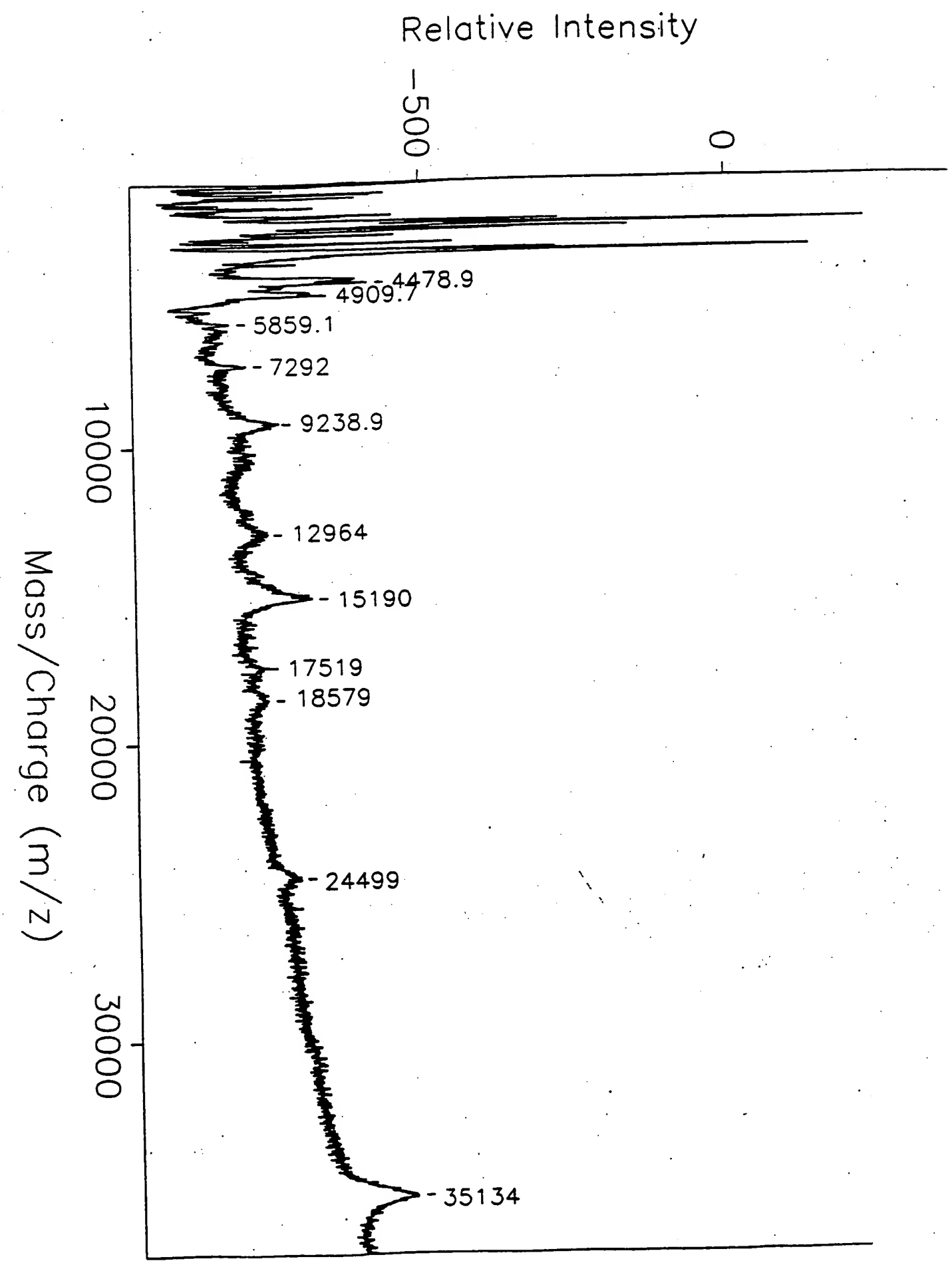


FIGURE 10


Relative Intensity
-500
0
4478.9
4909.7
5859.1
7292
9238.9
12964
15190
17519
18579
24499
35134
10000
20000
30000
Mass/Charge (m/z)

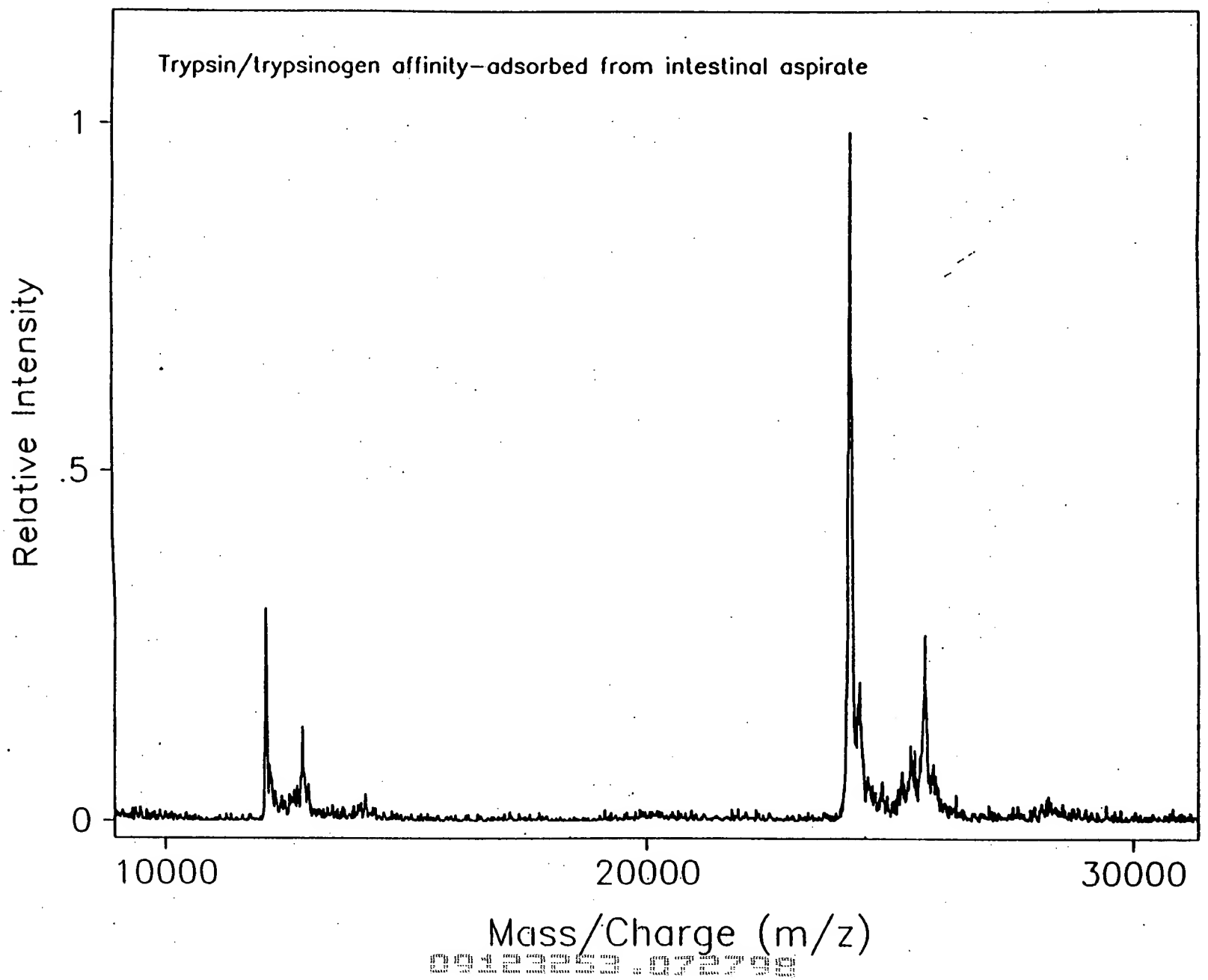

Trypsin/trypsinogen affinity-adsorbed from intestinal aspirate
Relative Intensity
1
.5
0
10000
20000
30000
Mass/Charge (m/z)

FIGURE 11 B

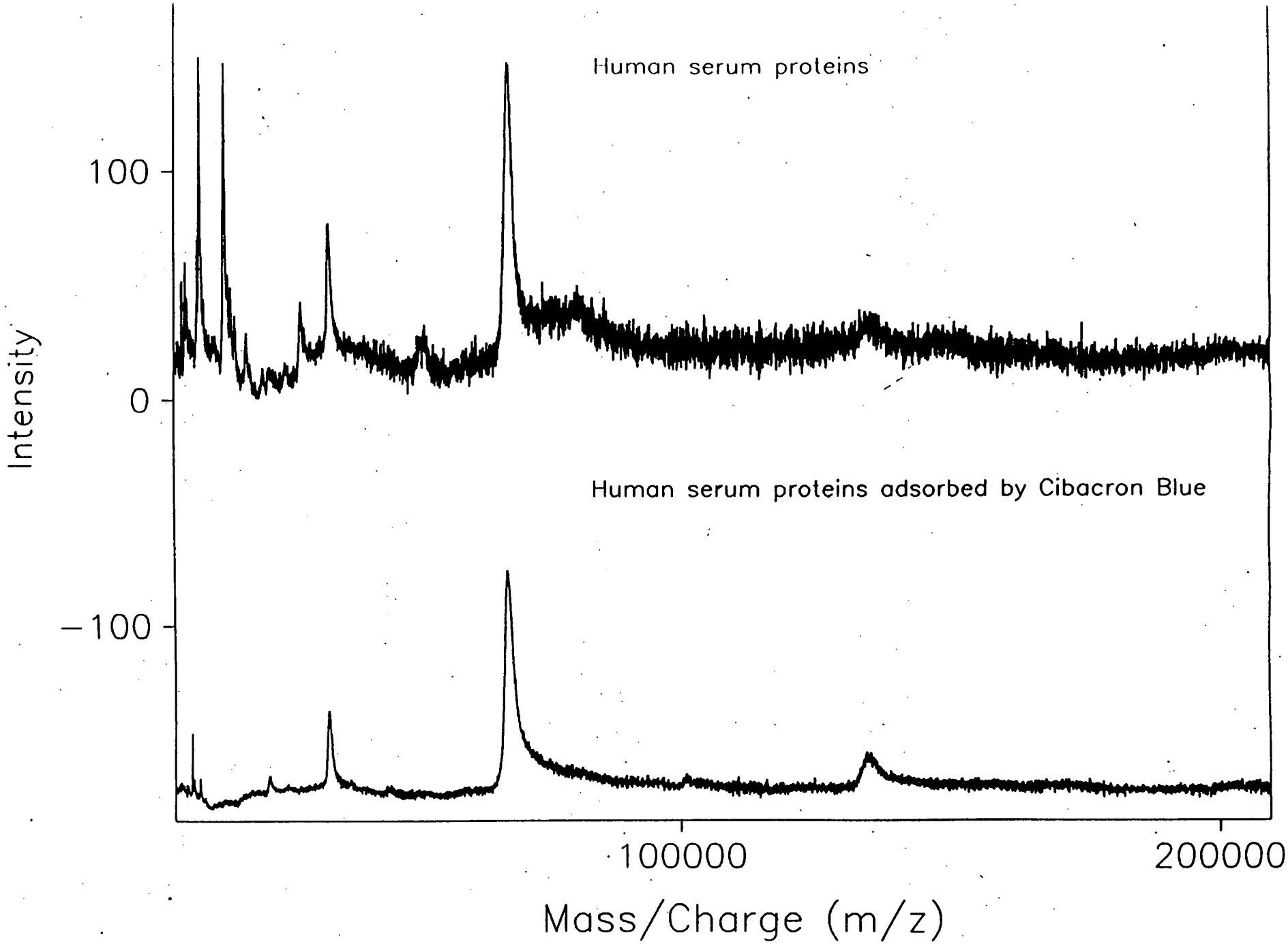


FIGURE 12

FIGURE 13

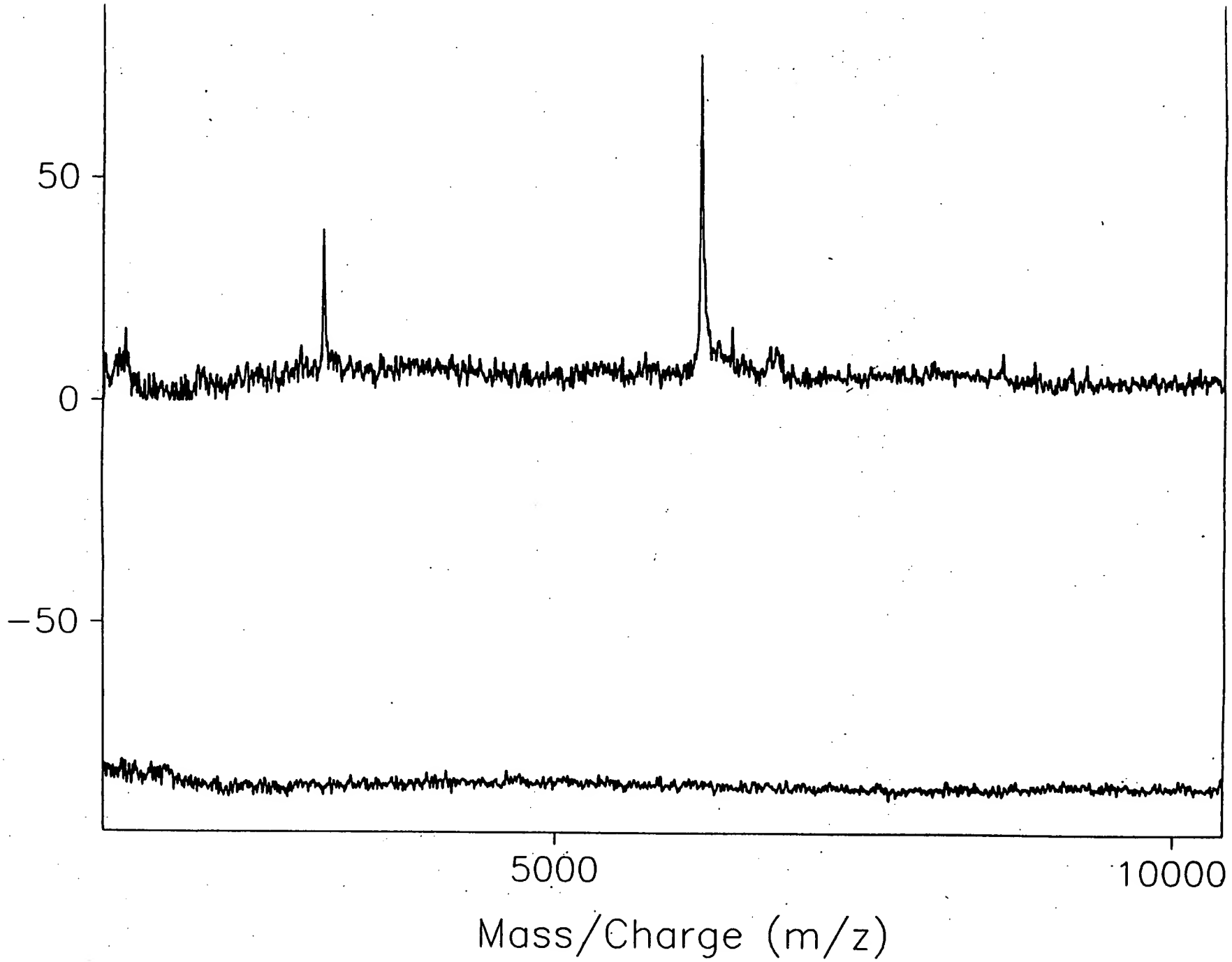


FIGURE 14

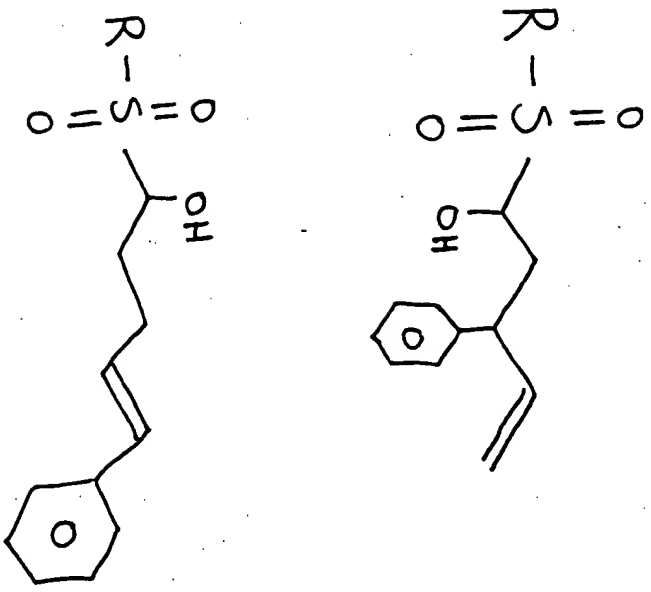


FIGURE 15

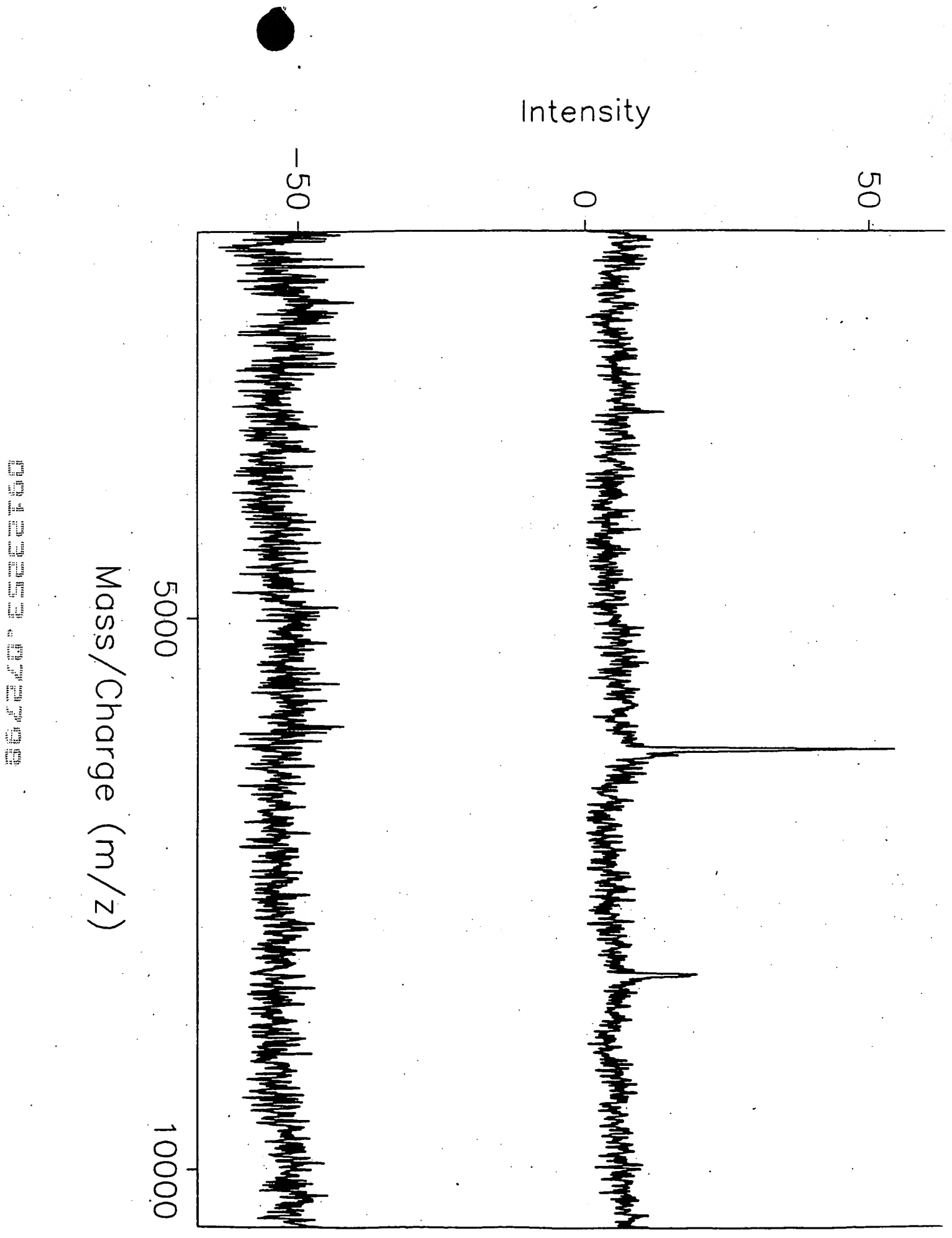


FIGURE 16

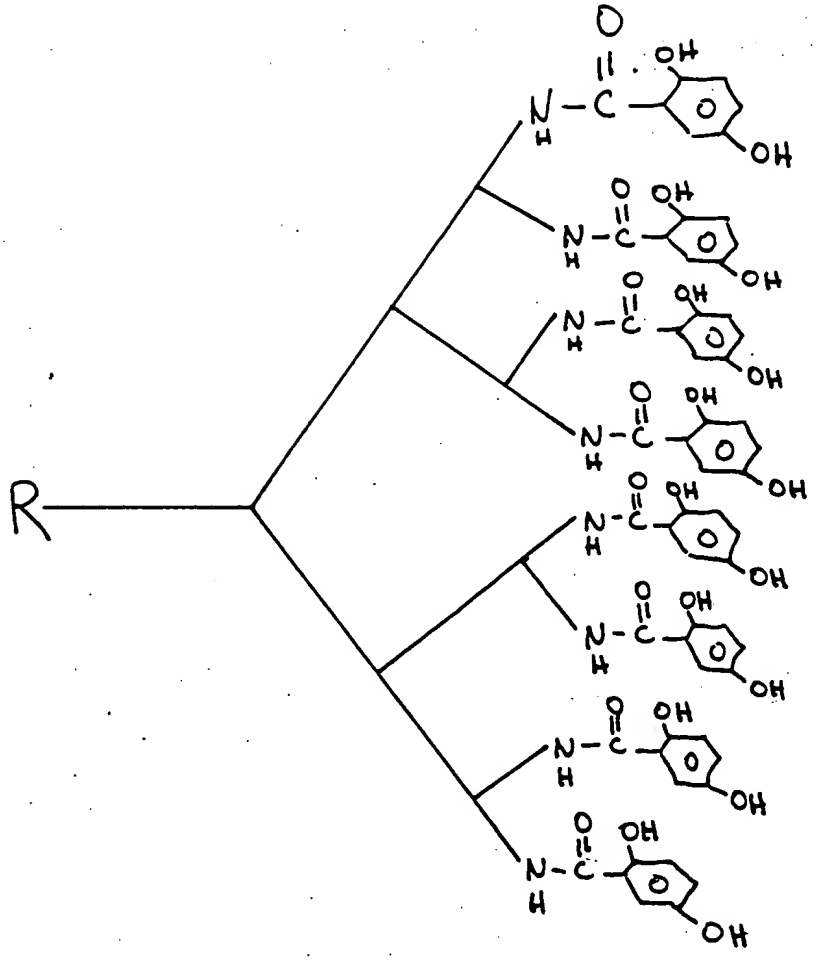


FIGURE 17

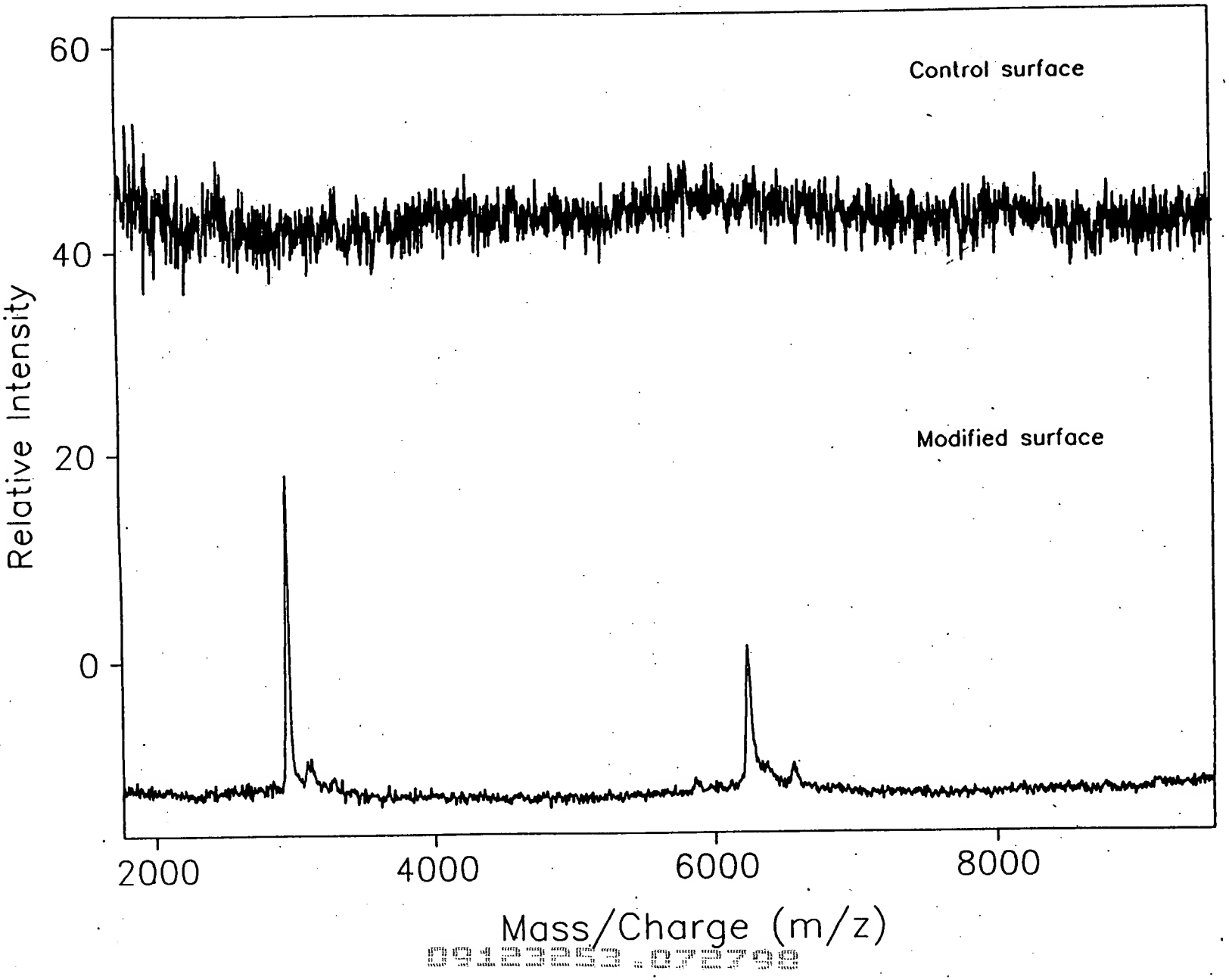

60
40
20
0
Relative Intensity
Control surface
Modified surface
2000
4000
6000
8000
Mass/Charge (m/z)

FIGURE 18

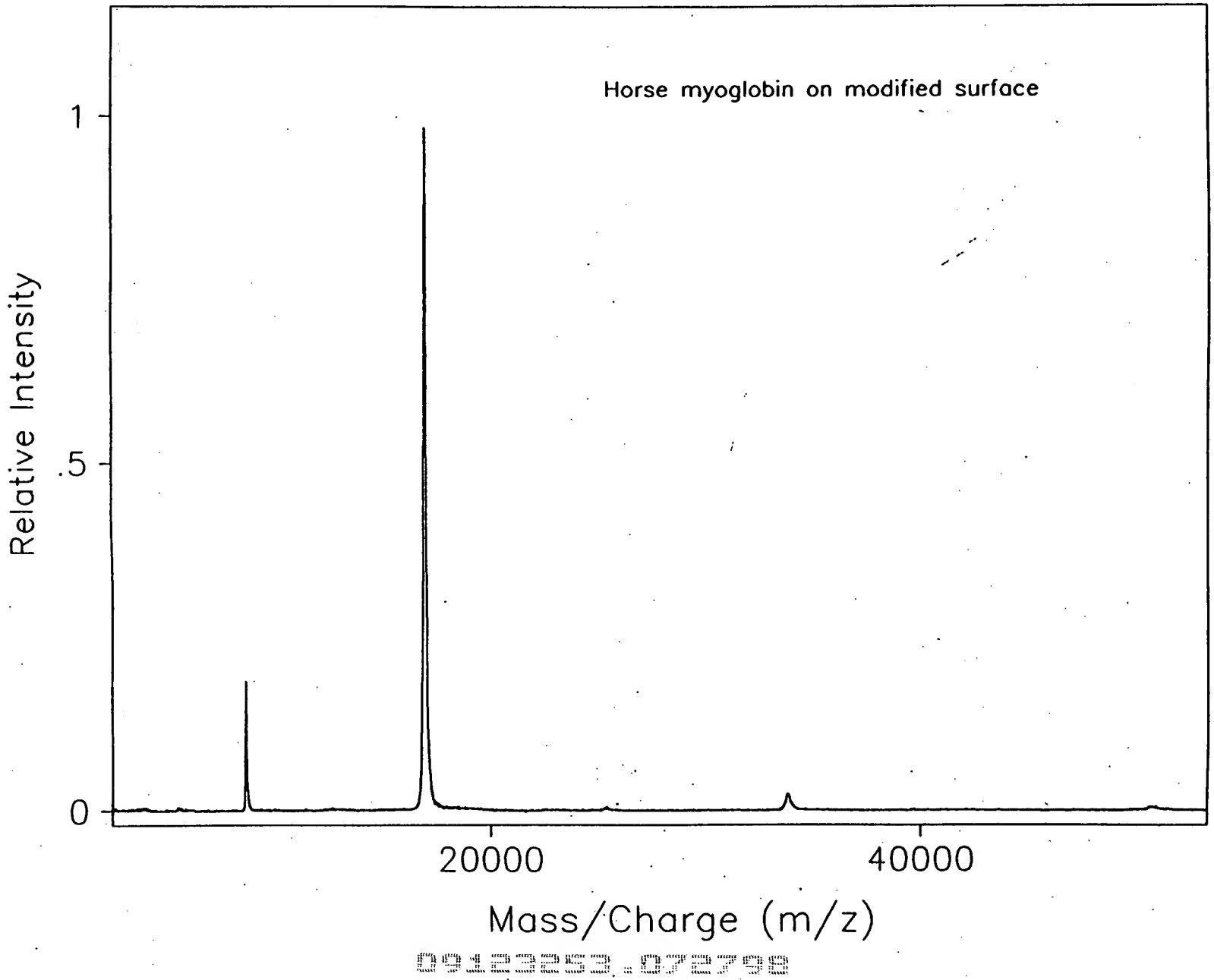

Horse myoglobin on modified surface
Relative Intensity
1
.5
0
20000
40000
Mass/Charge (m/z)

FIGURE 10A

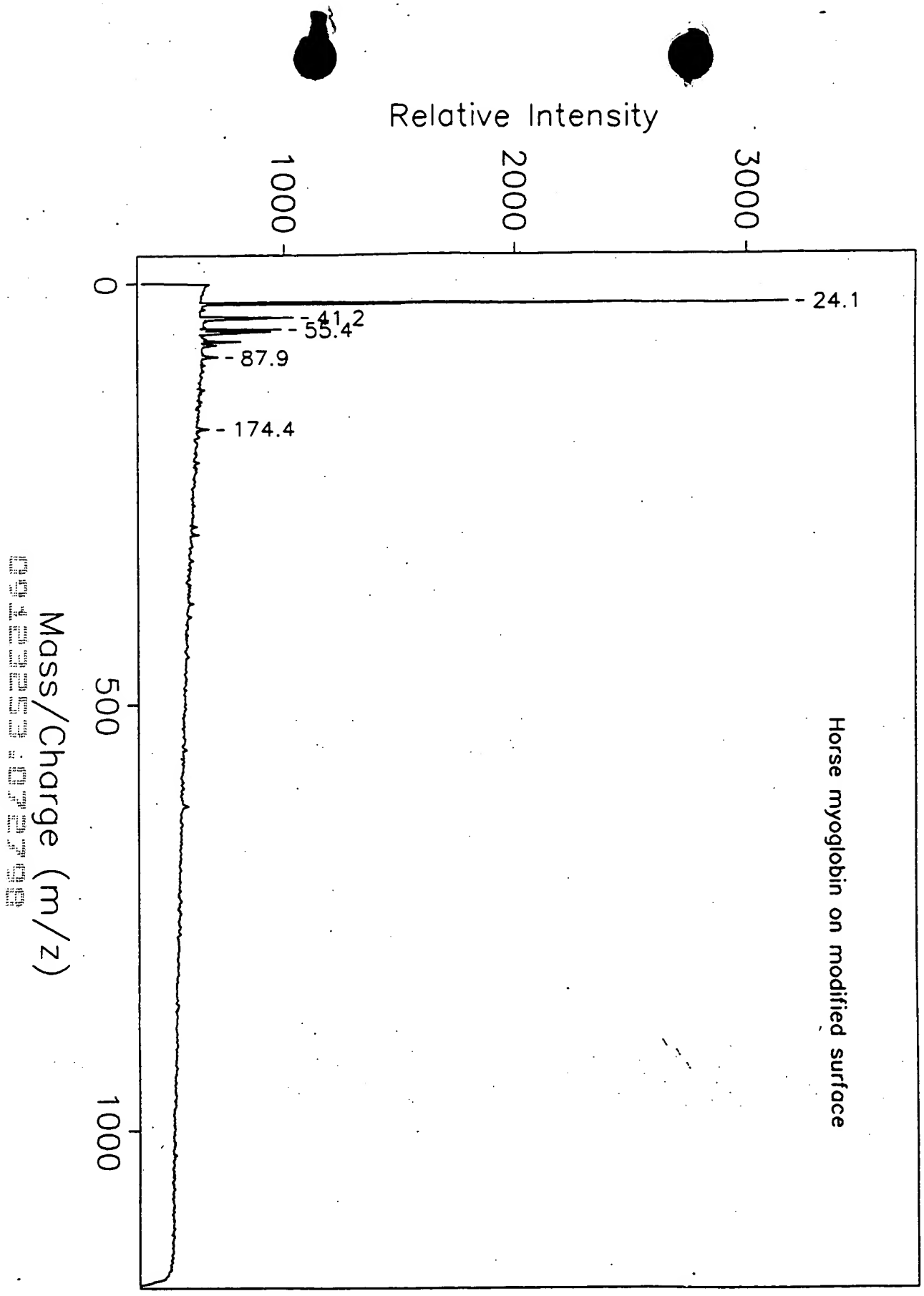

Relative Intensity
1000
2000
3000
0
500
1000
Mass/Charge (m/z)
24.1
41.2
55.4
87.9
174.4
Horse myoglobin on modified surface

FIGURE 19 B